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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/320,252	05/26/1999	PAUL EVAN MATZ	02950.P033	4390	
21186	7590 05/06/2005		EXAM	EXAMINER	
SCHWEGN	MAN, LUNDBERG, W	ENGLAND, DAVID E			
P.O. BOX 29	938 DLIS, MN 55402-0938	ART UNIT	PAPER NUMBER		
MINITERIORIS, MIN 33402-0730			2143		
			DATE MAILED: 05/06/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · ·		Applicat	ion No.	Applicant(s)				
		09/320,2	252	MATZ ET AL.				
Office Action Summary			er	Art Unit				
	,	David E.	England	2143				
	NAILING DATE of this commun			orrespondence address				
Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status	·							
1)⊠ Respo	1) Responsive to communication(s) filed on <u>25 March 2005</u> .							
2a)☐ This ad	This action is FINAL . 2b)⊠ This action is non-final.							
3) Since t	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is							
closed	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4) \boxtimes Claim(s) $1 - 5$, $7 - 13$, $15 - 17$, 19 , 20 and $24 - 27$ is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
<u> </u>	5) Claim(s) is/are allowed.							
	☑ Claim(s) <u>1 – 5, 7 – 13, 15 – 17, 19, 20 and 24 – 27</u> is/are rejected.							
•	7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
o) Claim	s/ are subject to restin	Stion and/or election	requirement.					
Application Papers								
9) The sp	ecification is objected to by th	e Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
222 the attached detailed embe deficit for a flot of the definited depice flot received.								
Attaches == 4/->								
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)								
	sclosure Statement(s) (PTO-1449 or lail Date	PTO/SB/08)	5) Notice of Informal P 6) Other:	ratent Application (PTO-152)				
S. Patent and Trademark Office								

PTOL-326 (Rev. 1-04)

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DETAILED ACTION

1. Claims 1 - 5, 7 - 13, 15 - 17, 19, 20 and 24 - 27 are presented for examination.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 2, 4, 7 13, 15, 17, 19, 20 and 24 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sundaresan (6289369) in view of Maresco (6418458).
- 4. Referencing claim 1, Sundaresan teaches a method of executing a transaction task within a transaction processing system, the method including:
- 5. responsive to an event, identifying a workflow associated with the event, (e.g. col. 2, line 48 col. 3, line 9 & col. 3, lines 22 37); and
- 6. identifying a processor affinity attributed to the task, (e.g. col. 4, line 63 col. 5, line 29);
- assigning the available thread to a processor within the multiprocessor system according to the processor affinity attributed to the task, (e.g. col. 3, line 55 col. 4, line 14 & col. 8, line 48 col. 9, line 19);

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- 8. distributing a task, that at least partially executes the workflow, from a task queue to an available thread within a pool of threads operating within a multiprocessor system, (e.g. col. 5, line 49 col. 6, line 7, "central queue, local queue(s)").
- 9. Sundaresan does not specifically teach the distributing of the task to the available thread being responsive to dynamically assigning a new priority to the task.
- 10. Maresco teaches teach the distributing of the task to the available thread being responsive to dynamically assigning a new priority to the task, (e.g. col. 3, lines 37 67 & col. 4, lines 16 56). It would have been obvious to one skilled in the art at the time the invention was make to combine Maresco with Sundaresan because if a new task that has a higher priority enters a queue, it would be advantageous to the system to address the new task first in the thread so the system can utilize the important result of the finished thread.
- 11. As per claim 2, Sundaresan teaches wherein the event comprises a transaction event and the task comprises a transaction task responsive to a transaction request associated with the transaction event, (e.g. col. 5, lines 30 48).
- 12. As per claim 4, Sundaresan teaches the transaction task comprises a transaction information task to either store or retrieve information pertinent to a transaction, (e.g. col. 7, line 56 col. 8, line 27).
- 13. As per claim 7, Sundaresan does not specifically teach assigning the available thread to a processor within the multiprocessor system according to a thread priority. Maresco teaches

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assigning the available thread to a processor within the multiprocessor system according to a thread priority, (e.g. col. 3, lines 37 - 67 & Fig. 1). It would have been obvious to one skilled in the art at the time the invention was make to combine Maresco with Sundaresan because of similar reasons stated above and if a thread that has important information that other threads rely on does not get processed first it could cause errors in the system.

- As per claim 8, Sundaresan does not specifically teach assigning the thread priority to the available thread based on a priority, of the task distributed to the available thread. Maresco teaches assigning the thread priority to the available thread based on a priority, of the task distributed to the available thread, (e.g. col. 4, lines 16 56). It would have been obvious to one skilled in the art at the time the invention was make to combine Maresco with Sundaresan because of similar reasons stated above and if an incoming task that is important, needs to be completed first, it could be sent to the next available thread within the pool of threads therefore, causing the thread to have the same priority as the task therefore having the task be processed sooner.
- 15. As per claim 24, Sundaresan teaches determining a best match between the task and the available thread, (e.g. col. 3, line 55 col. 4, line 16).
- 16. As per claim 25, Sundaresan teaches the available thread is a member of a class of threads that are included in the pool of threads, (e.g. col. 6, lines 8 29 & col. 8, line 48 col. 9, line 4) although does not specifically teach threads associated with the priority. Maresco teaches

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threads associated with the priority, (e.g. col. 4, lines 16 - 56). It would have been obvious to one skilled in the art at the time the invention was make to combine Maresco with Sundaresan because of similar reasons stated above.

- 17. Claims 9 13, 15, 17, 19, 20, 26 and 27 are rejected for similar reasons as stated above.
- 18. Claims 3 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sundaresan and Maresco as applied to claims 1, 2 and 9 above, and in further view of Szlam et al. (6314089) (hereinafter Szlam).
- As per claim 3, Sundaresan and Maresco do not specifically teach wherein the transaction task comprises a transaction routing task that routes the transaction request associated with the transaction event to an agent of the transaction processing system. Szlam teaches wherein the transaction task comprises a transaction routing task that routes the transaction request associated with the transaction event to an agent of the transaction processing system, (e.g. col. 21, lines 1 19). It would have been obvious to one skilled in the art at the time the invention was make to combine Szlam with the combine system of Sundaresan and Maresco because if a transaction task needed a resource that an agent possessed the transaction task could request it from the agent therefore aiding in the completion of the task.
- 20. Claim 16 is rejected for similar reasons as stated above.

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21. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sundaresan and Maresco as applied to claim 1 above, and in further view of Sequeira (6222530).

22. As per claim 5, Sundaresan and Maresco do not specifically teach wherein the task has a real-time priority and is distributed in accordance with the real-time priority to the available thread within the pool of threads. Sequeira teaches wherein the task has a real-time priority and is distributed in accordance with the real-time priority to the available thread within the pool of threads, (e.g. col. 5, line 46 – col. 6, line 6 & col. 9, lines 16 – 31). It would have been obvious to one skilled in the art at the time the invention was make to combine Sequeira with the combine system of Sundaresan and Maresco because if an incoming task that is important, needs to be completed first, it could be sent to the next available thread within the pool of threads before the other tasks and be processed sooner.

Response to Arguments

23. Applicant's arguments with respect to claims 1 - 5, 7 - 13, 15 - 17, 19, 20 and 24 - 27 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

- 24. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 25. a. Kimmel et al. U.S. Patent No. 6105053 discloses Operating system for a non-uniform memory access multiprocessor system.

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26. b. Orton et al. U.S. Patent No. 6351778 discloses Object-oriented operating system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David E. England whose telephone number is 571-272-3912. The examiner can normally be reached on Mon-Thur, 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Wiley can be reached on 571-272-3923. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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DAVIDWHEEY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100